FIG.1

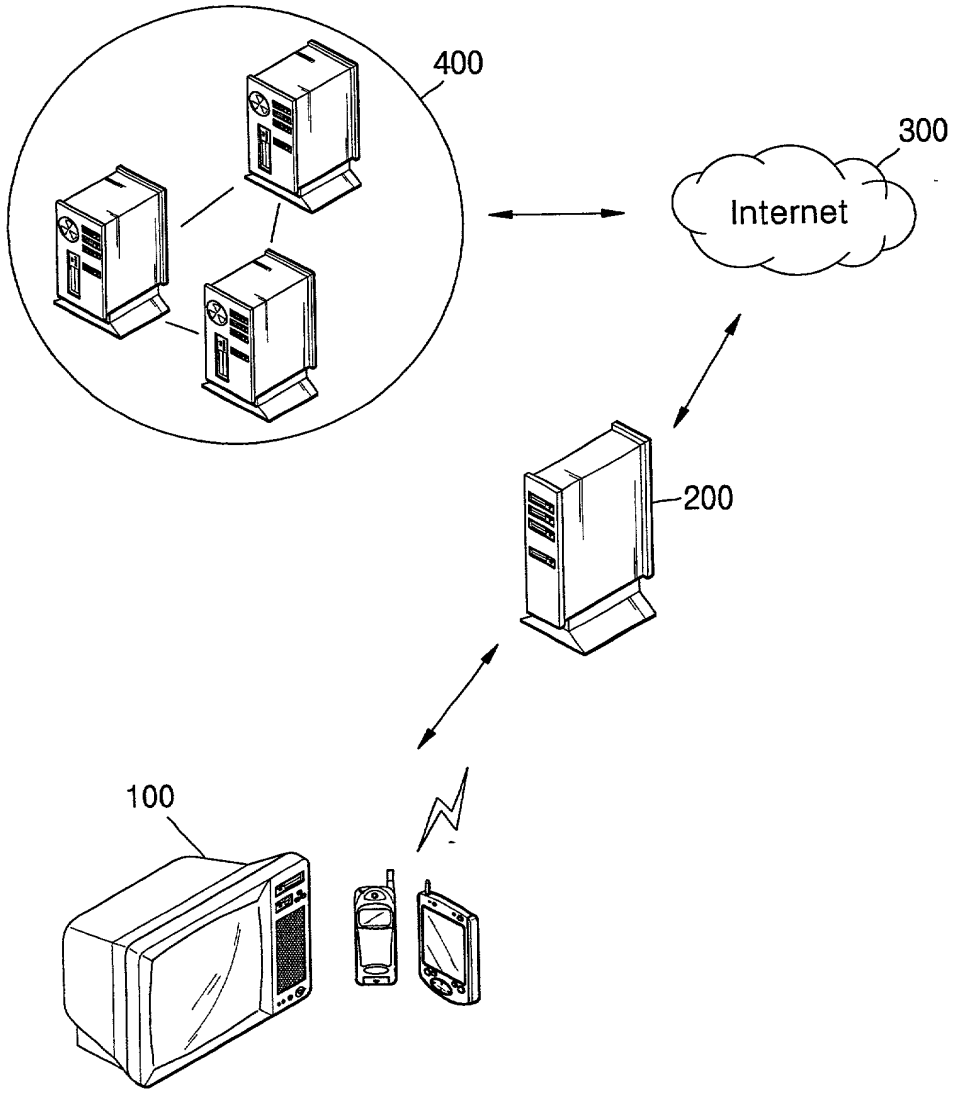

FIG.2

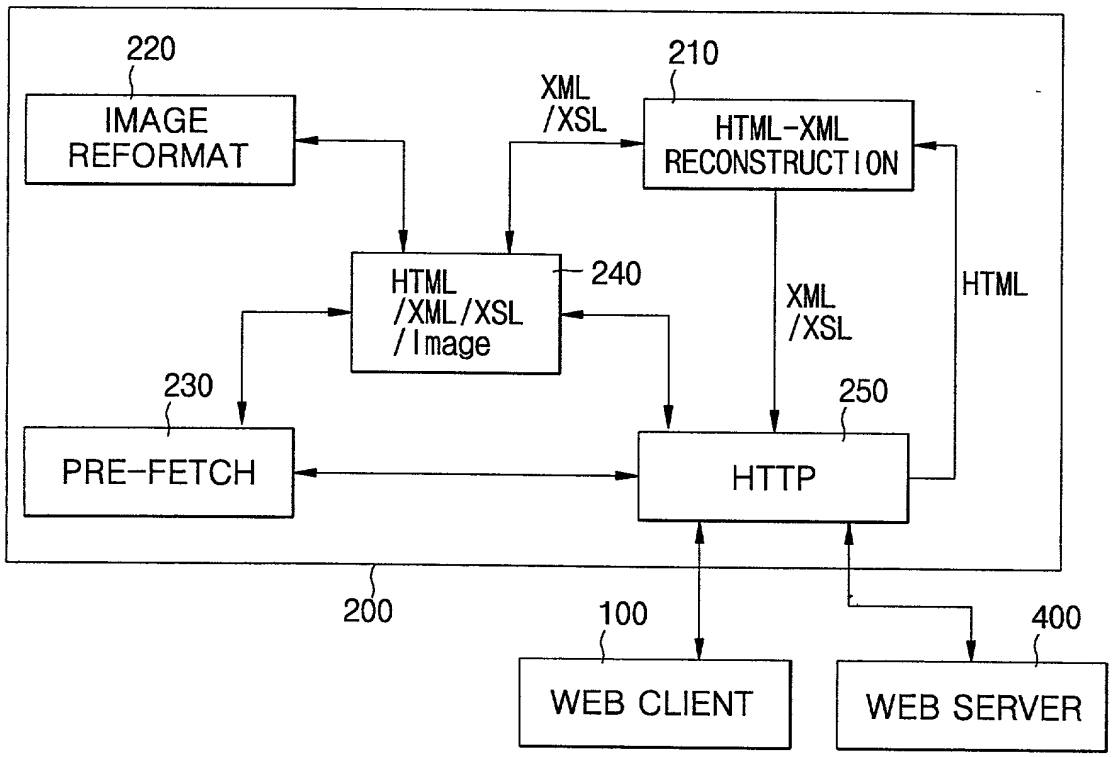
220
IMAGE REFORMAT
210
XML /XSL
HTML-XML RECONSTRUCTION
HTML /XML/XSL /Image
240
XML /XSL
HTML
230
PRE-FETCH
250
HTTP
200
100
WEB CLIENT
400
WEB SERVER

FIG.3

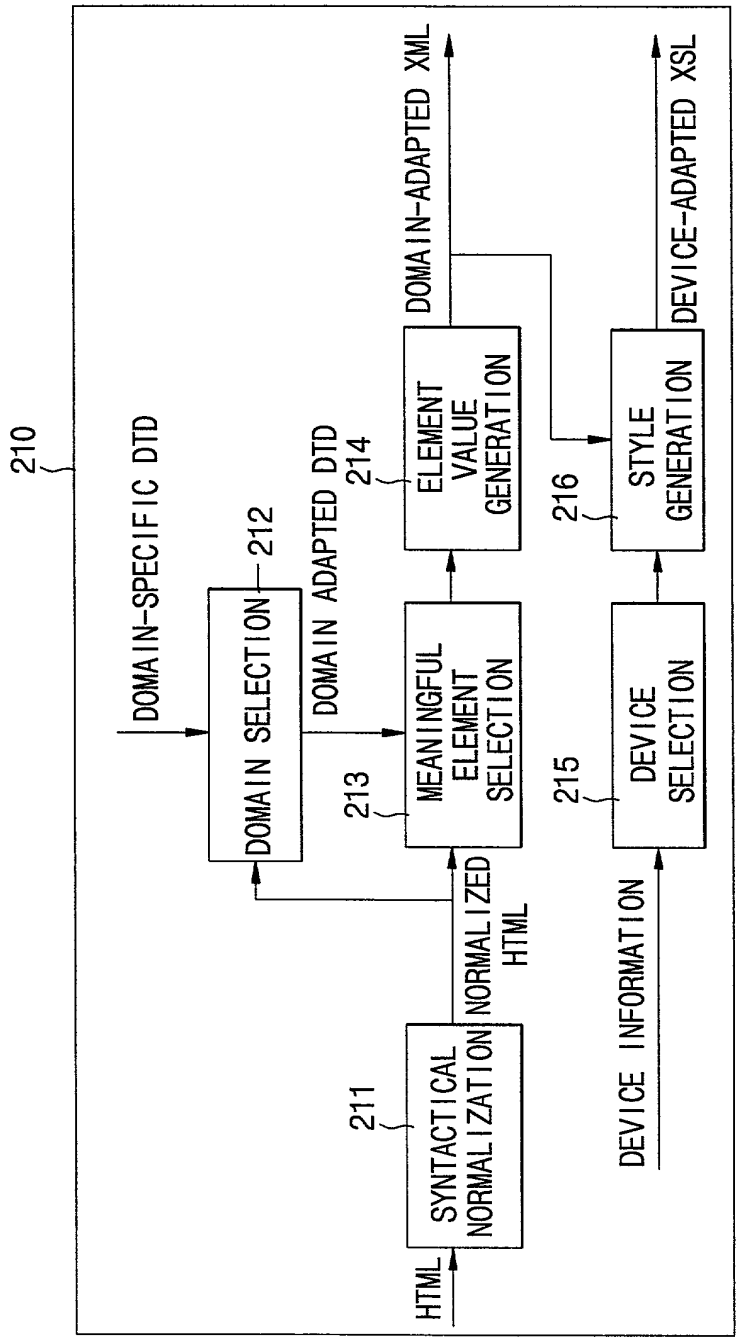
210
DOMAIN-SPECIFIC DTD
DOMAIN SELECTION
212
DOMAIN ADAPTED DTD
214
ELEMENT VALUE GENERATION
DOMAIN-ADAPTED XML
216
STYLE GENERATION
DEVICE-ADAPTED XSL
213
MEANINGFUL ELEMENT SELECTION
215
DEVICE SELECTION
DEVICE INFORMATION
211
SYNTACTICAL NORMALIZATION
NORMALIZED HTML
HTML

FIG.4

```
<!ELEMENT DESTINATION (HOTELS, TOURIST-INFORMATION)>
<!ATTLIST DESTINATION
        title     CDATA #IMPLIED
>
<!ELEMENT HOTELS (CITY)+>
<!ATTLIST HOTELS
        title     CDATA #IMPLIED
>
<!ELEMENT CITY (HOTEL)+>
<!ATTLIST CITY
        name   CDATA #IMPLIED
>
<!ELEMENT HOTEL (#PCDATA)>
<!ELEMENT TOURIST-INFORMATION (TELEPHONE-CODE, INTERNET-DOMAIN, TRANSPORTATION)>
<!ATTLIST TOURIST-INFORMATION
        title     CDATA #IMPLIED
>
<!ELEMENT TELEPHONE-CODE (#PCDATA)>
<!ATTLIST TELEPHONE-CODE
        title     CDATA #IMPLIED
>
<!ELEMENT INTERNET-DOMAIN (#PCDATA)>
<!ATTLIST INTERNET-DOMAIN
        title     CDATA #IMPLIED
>
<!ELEMENT TRANSPORTATION (AIRLINES, AIRPORTS)>
<!ATTLIST TRANSPORTATION
        title     CDATA #IMPLIED
>
<!ELEMENT AIRLINES (AIRLINE)+>
<!ATTLIST AIRLINES
        title     CDATA #IMPLIED
>
<!ELEMENT AIRLINE (#PCDATA)>
<!ELEMENT AIRPORTS (AIRPORT)+>
<!ATTLIST AIRPORTS
        title     CDATA #IMPLIED
>
<!ELEMENT AIRPORT (#PCDATA)>
```

FIG.5

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="destination.xsl"?>
<!DOCTYPE ESTIMATE SYSTEM "destination.dtd">
<DESTINATION TITLE="Destination - Korea(South)">
        <HOTELS TITLE="Hotels in South Korea">
                <CITY NAME="Pusan:"></CITY>
                <CITY NAME="Seoul:">
                        <HOTEL>Hilton, </HOTEL>
                        <HOTEL>Inter-Continental, </HOTEL>
                        <HOTEL>Sheraton, </HOTEL>
                        <HOTEL>Hotel Lotte World, </HOTEL>
                        <HOTEL>Ritz-Carlton</HOTEL>
                </CITY>
        </HOTELS>

        <TOURIST-INFORMATION TITLE="Tourist Informations">
                <TELEPHONE-CODE TITLE="Telephone Country Code : ">82</TELEPHONE-CODE>
                <INTERNET-DOMAIN TITLE="Internet Domain : ").kr</INTERNET-DOMAIN>
                <TRANSPORTATION TITLE="Transportation">
                        <AIRLINES TITLE="Airlines">
                                <AIRLINE>Asiana</AIRLINE>
                                <AIRLINE>Korean Air</AIRLINE>
                        </AIRLINES>
                        <AIRPORTS TITLE="Airports">
                                <AIRPORT>Seoul</AIRPORT>
                        </AIRPORTS>
                </TRANSPORTATION>
        </TOURIST-INFORMATION>
</DESTINATION>
```

FIG.6

```
<?xml version="1.0" encoding="euc-kr"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
<xsl:template>
  <xsl:value-of />
</xsl:template>
<xsl:template match="/">
<html>
<head>
<title>
        <xsl:for-each select="DESTINATION">
                <xsl:apply-templates select="@TITLE"/>
        </xsl:for-each>
</title>
</head>
<body>
<form>
<table width="300" border="0" cellpadding="3" cellspacing="1">
        <tr>
                <td align="center"><b><xsl:apply-templates  select="/DESTINATION/@TITLE"/></b></td>
        </tr>
</table>
<xsl:for-each select="DESTINATION">
<table width="300" border="0" cellspacing="1" bgcolor="black">
        <tr>
                <td width="300" colspan="2" bgcolor="#F5F5F5"><xsl:apply-templates select="HOTELS/@TITLE"/></td>
        </tr>
        <xsl:for-each select="HOTELS/CITY">
                <tr>
                        <td bgcolor="#F5F5F5"><xsl:apply-templates select="@NAME"/></td>
                        <td bgcolor="white"><xsl:apply-templates select="HOTEL"/></td>
                </tr>
        </xsl:for-each>
</table>
```